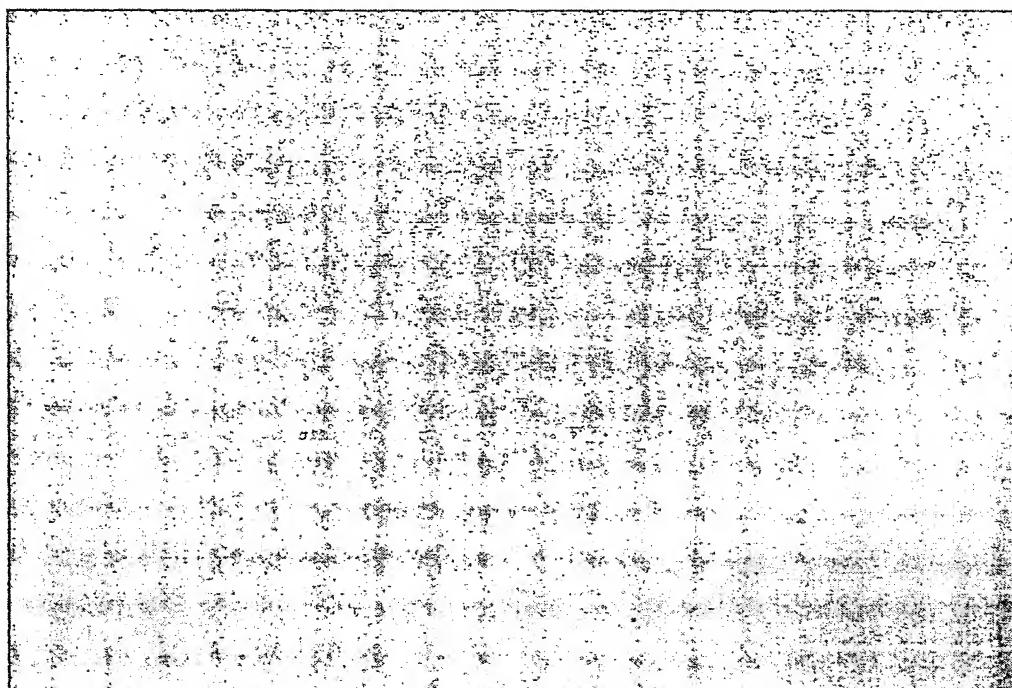


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FIG. 1

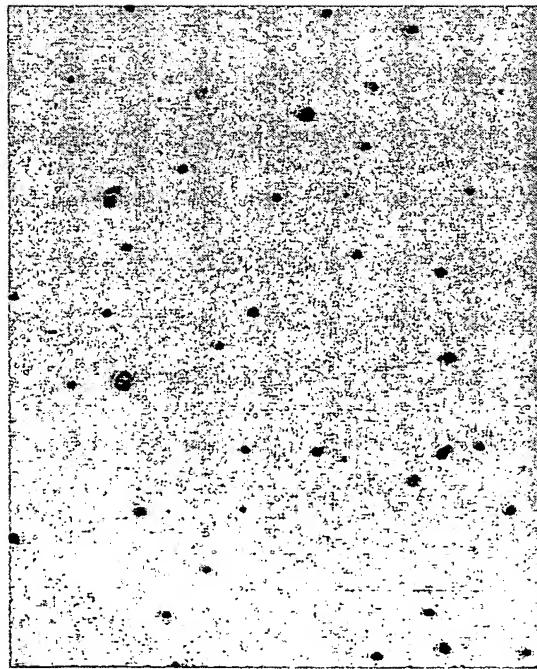


ON W THIN FILM

OPTICAL MICROSCOPIC PHOTOGRAPH
OF SURFACE OF AlN THIN FILM (x800)

BEST AVAILABLE COPY

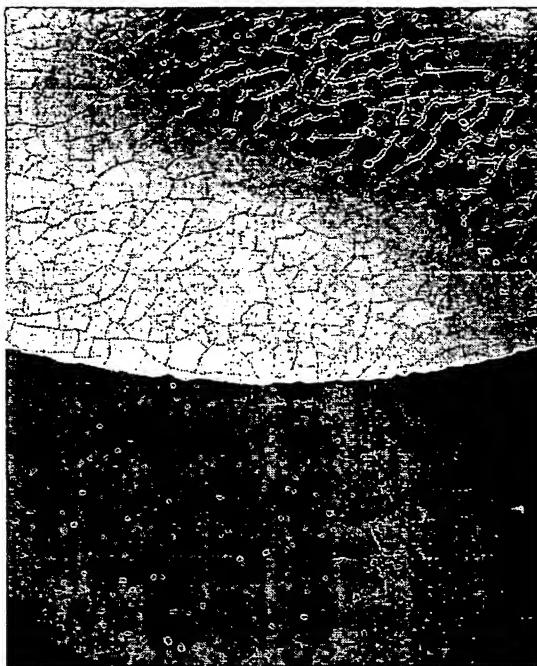
FIG. 2 (a)



ON Ti/Au THIN FILM (x800)

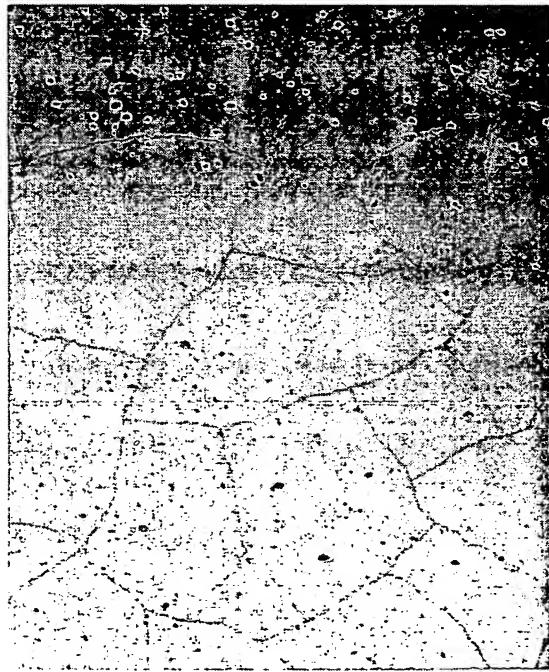
OPTICAL MICROSCOPIC PHOTOGRAPH OF SURFACE OF AlN THIN FILM

FIG. 2 (b)



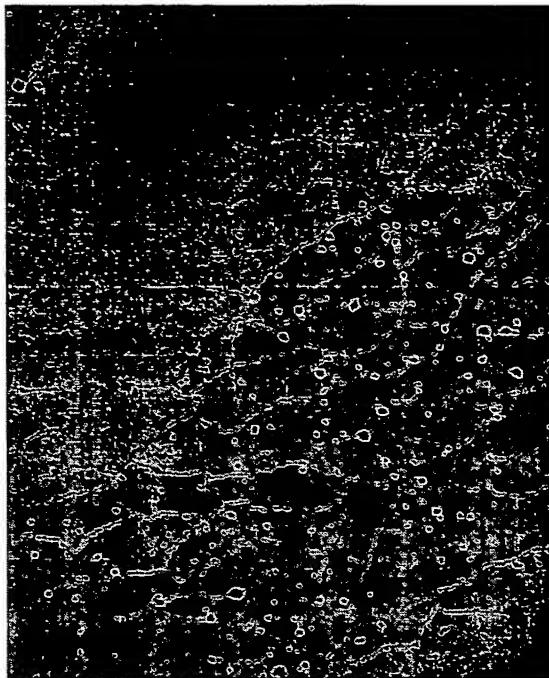
ON Al-Si THIN FILM (x50)

FIG. 3 (a)



ON Cr THIN FILM (x500)

FIG. 3 (b)

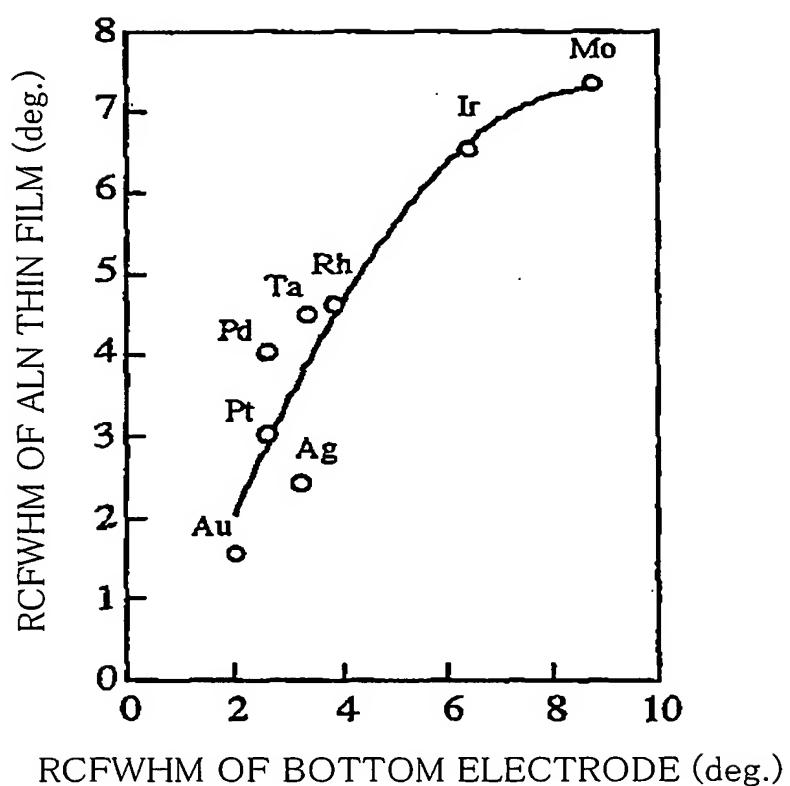


ON Ni THIN FILM (x500)

OPTICAL MICROSCOPIC PHOTOGRAPH OF SURFACE OF AlN THIN FILM

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FIG. 4



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FIG. 5

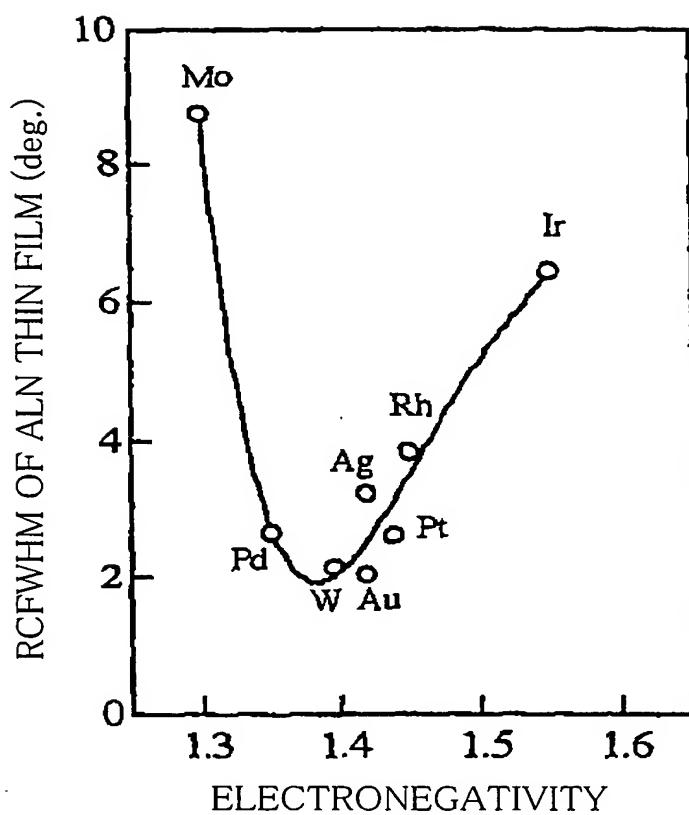
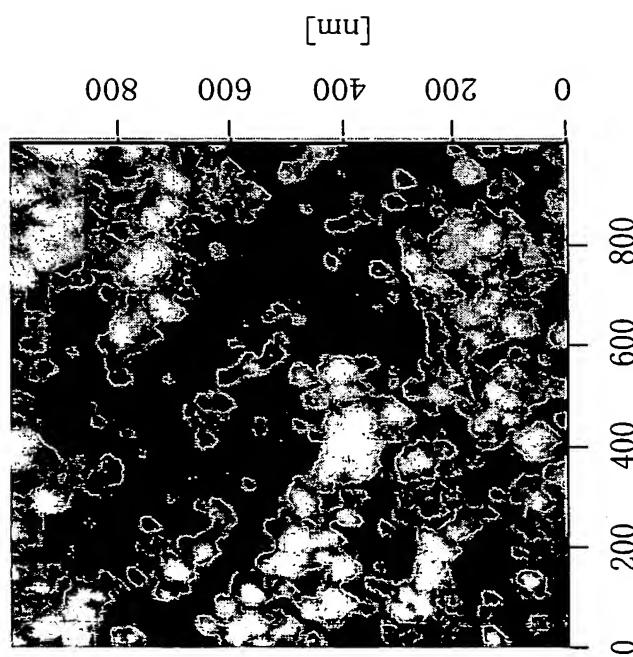
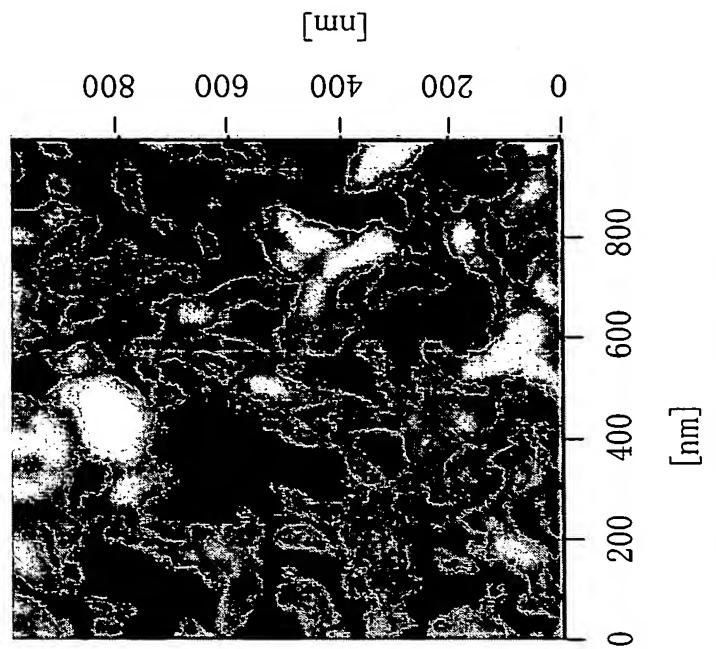


FIG. 6 (a)



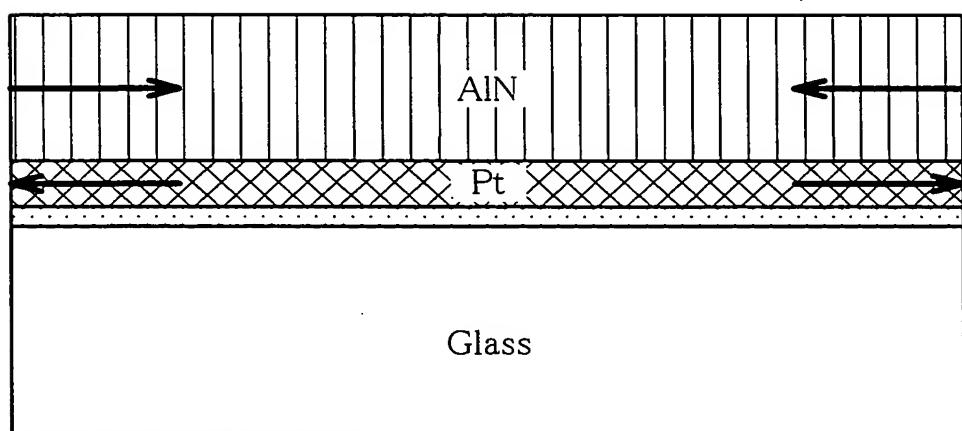
ON Ti/Pt THIN FILM

FIG. 6 (b)

ATOMIC FORCE MICROSCOPE (AFM) IMAGE OF SURFACE OF AlN THIN FILM
ON Cr/Pt THIN FILM

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FIG. 7



STRESS ACTING ON THIN FILM

FIG. 8 (a)

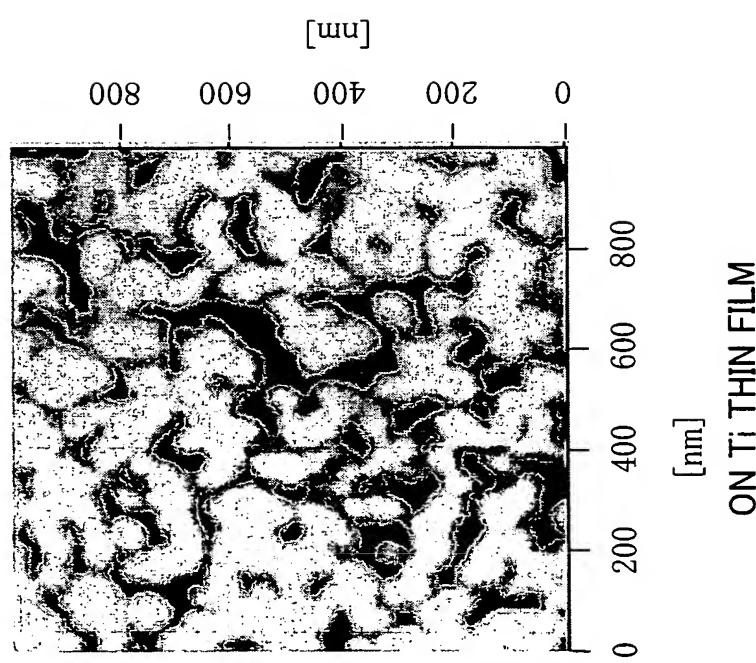


FIG. 8 (b)

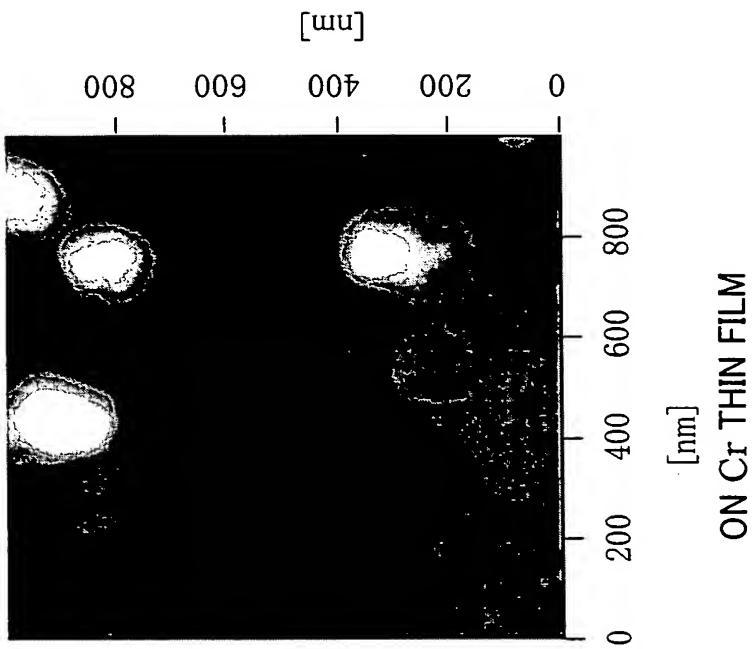


FIG. 9 (a)

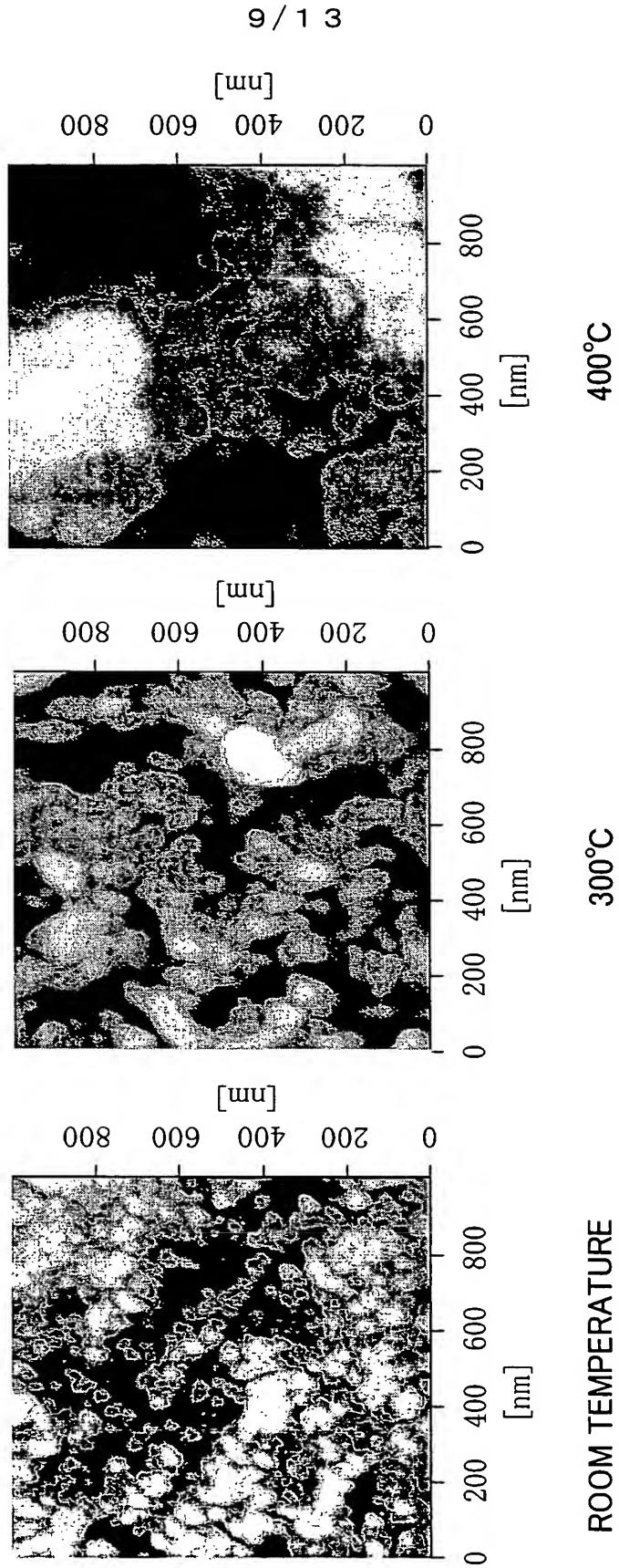


FIG. 9 (b)

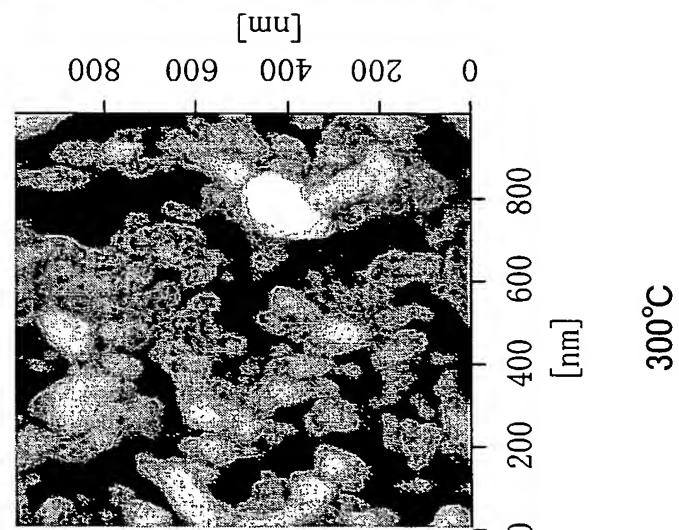
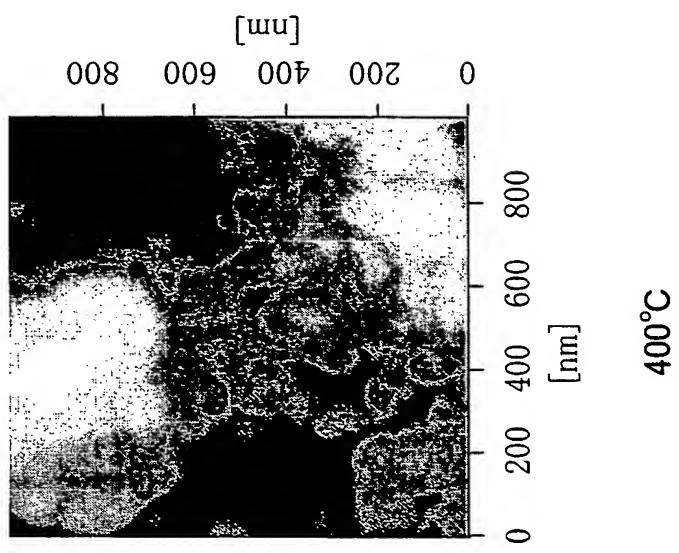


FIG. 9(c)



ATOMIC FORCE MICROSCOPE (AFM) IMAGES OF SURFACES OF AN THIN FILMS ON Ti/Pt THIN FILMS PROCESSED AT DIFFERENT TEMPERATURES

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FIG. 10 (a)

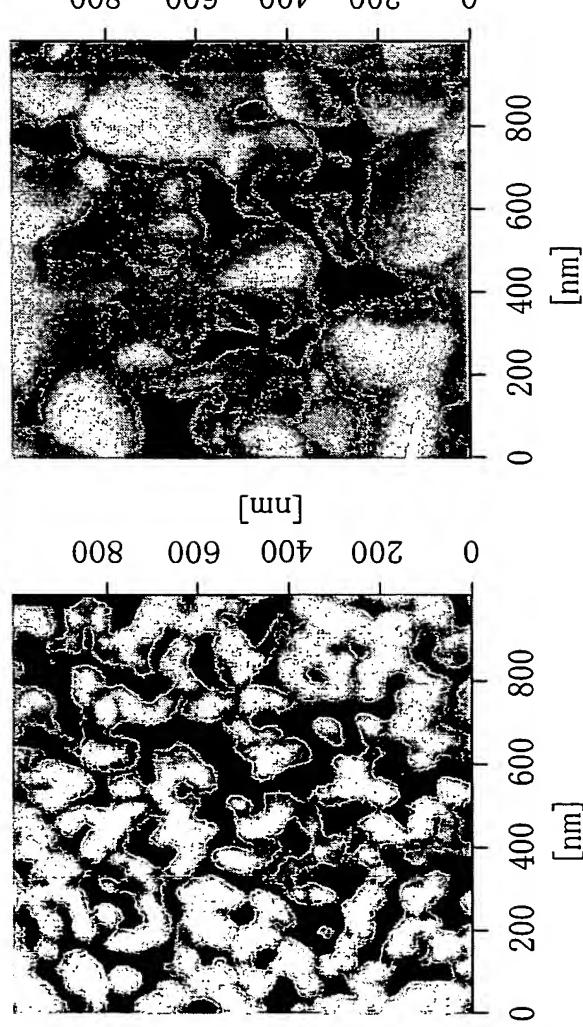


FIG. 10 (b)

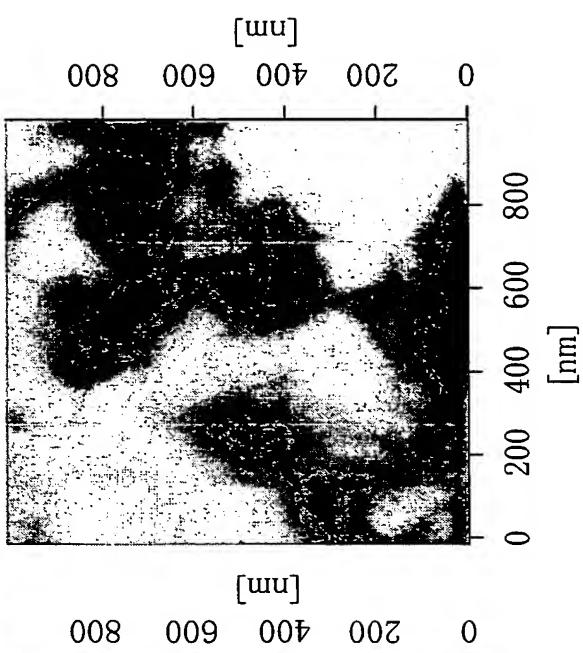
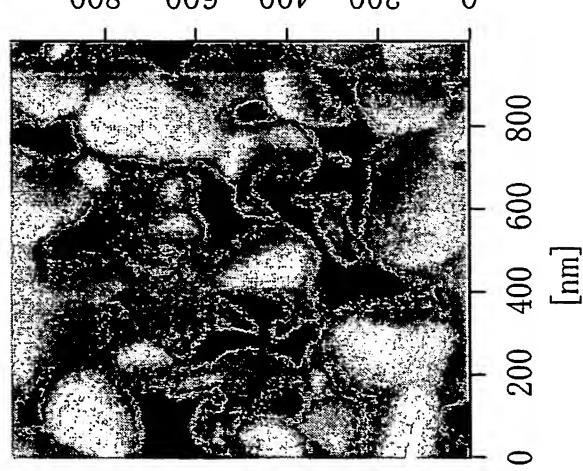
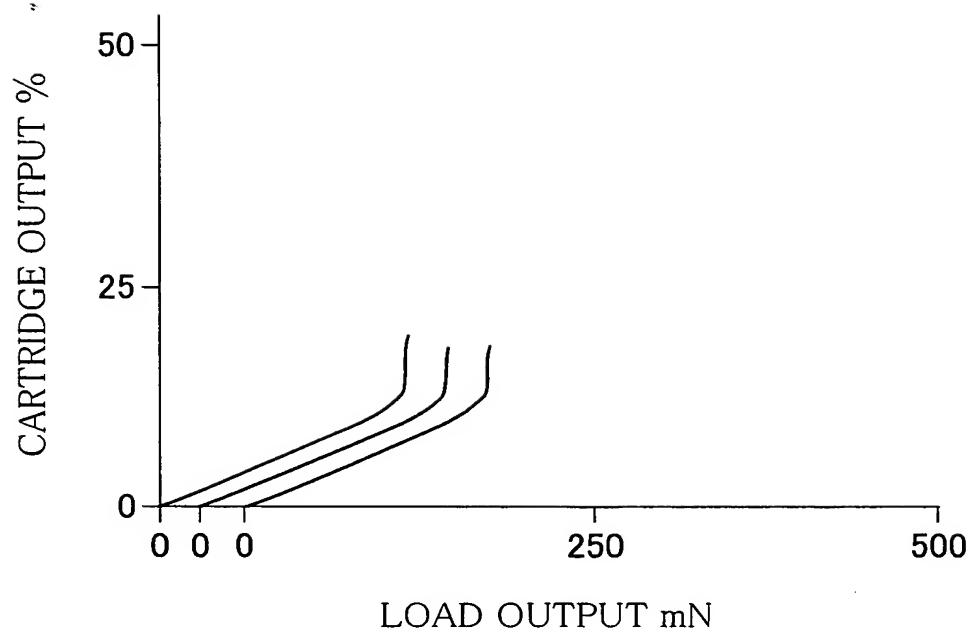


FIG. 10 (c)

ATOMIC FORCE MICROSCOPE (AFM) IMAGES OF SURFACES OF Pt THIN FILMS
ON Ti/Pt THIN FILMS PROCESSED AT DIFFERENT TEMPERATURES

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FIG. 11

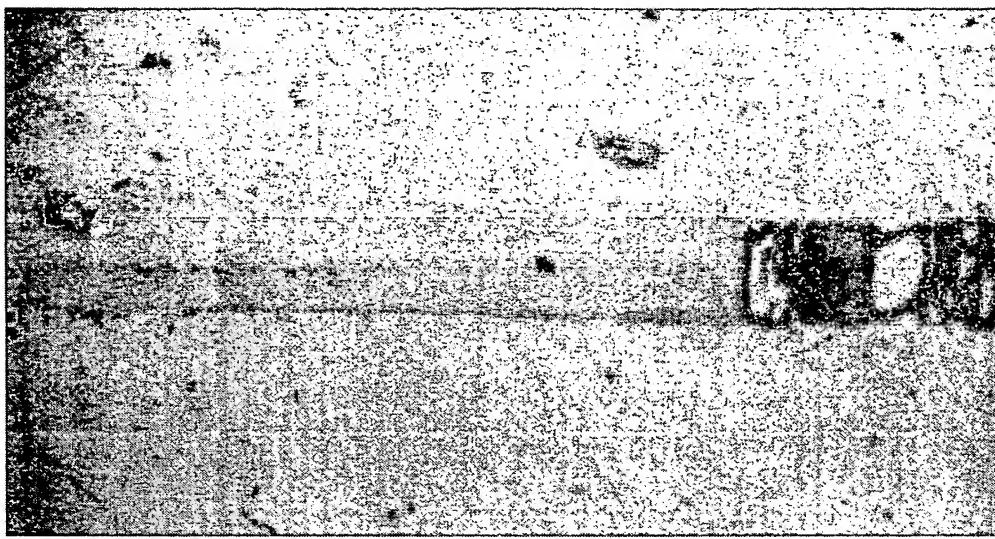


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FIG. 12

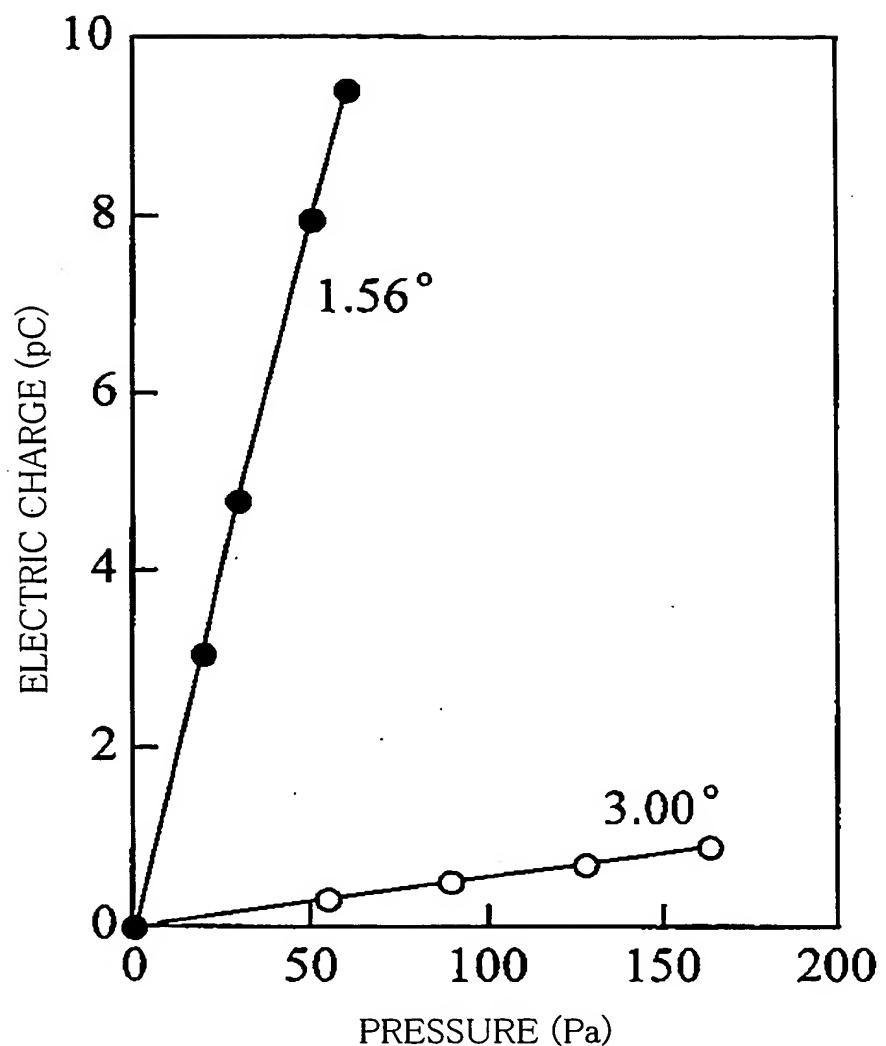


DIRECTION OF MEASUREMENT→

MICROSCOPE PHOTOGRAPH OF SCRATCH (x150)

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FIG. 13



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